basic imagery interpretation report

Ivankovskiy Guided Missile Plant (S)

STRATEGIC WEAPONS INDUSTRIAL FACILITIES

25X1

USSR

INSTALLATION OR ACTIVITY NAME					COUNTRY
Ivankovskiy Guided Missile Plant					UR
UTM COORDINATES	GEOGRAPHIC COORDINATES	CATEGORY	BE NO.	COMIREX NO.	NIETB NO.
NA	56-45-21N 037-07-00E	[redacted]			25X1

MAP REFERENCE

ACIC. USATC, Series 200, Sheet 0154-22, scale 1:200,000

LATEST IMAGERY USED	NEGATION DATE (If required)
[redacted]	NA 25X1

ABSTRACT

1. (S/D) This report describes activity at the Ivankovskiy Guided Missile Plant, USSR, from August 1978 through November 1981 and updates the previous NPIC report on this facility, [redacted] This report is based on all relevant satellite imagery acquired through the information cutoff date of [redacted] A line drawing showing the layout of the facility, six annotated photographs, and three tables are included. 25X1 25X1 25X1

2. (S/D) A new developmental area was under construction in the southwestern section of the plant during the reporting period. The engine/propulsion test cell was in the late stages of a major modification program. Evidence of continuing and new production of air-to-surface missiles (ASMs) included the presence of AS-4, AS-9, and ASM shipping crates of various sizes. Ivankovskiy was probably involved in the development of a new long-range strategic air-launched cruise missile (ALCM) and/or the SS-NX-22 naval cruise missile during the reporting period.

INTRODUCTION

3. (TSU [redacted] The Bereznyak design bureau (KB) is at the Ivankovskiy Guided Missile Plant (Figures 1 and 2 and Table 1). The plant served as the KB's pilot plant for preflight testing, the production plant for flight testing, and the series production plant for some of the KB's programs.[1] The Bereznyak KB is the only identified Soviet design authority for ASMs. It was also involved in the design of naval surface-to-surface cruise missiles (SSCMs) that were based on ASM designs. The KB is probably involved in the development and production of a variety of tactical ASMs (TASMs) and a strategic ALCM. The Bereznyak KB may also be involved with the Mikoyan KB in the design of a reusable space system (RSS).[2] 25X1

BASIC DESCRIPTION

Construction

4. (S/D) The construction of a developmental area (Figure 3), which began in 1976, was nearly complete in 1981. The new area is in the southwest corner of the plant and consists of engineering and testing floorspace. A new-style possible test building (item 127, Figure 3 and Table 1) was externally complete by early 1980. During the early stages of construction, the building was partitioned into three bays or sections. Poured concrete or concrete blocks, rather than standard prefabricated building sections, were used during construction. The thickness and sturdy construction of the walls indicate the possibility of the building being used for hazardous operations (i.e., laboratory tests or component tests). The eastern possible test section (item 127a) of the building is 18 by 4 by 11 meters. A high-bay section (item 127b) along the western side of the building has three possible air intakes/ventilators or skylights. A rectangular tower/stack (item 126) was constructed east of the possible test building. Its configuration and alignment resemble those of an exhaust silencer/diffuser for an engine/propulsion test position. There is no physical connection between the possible test building and the rectangular tower/stack. If the building and tower/stack were to function as a test position, an exhaust duct connecting the two would be necessary. On imagery of [redacted] (Figure 4), a partially covered, L-shaped excavation extending from the rectangular tower/stack toward (but not connecting with) the possible test building was observed. An excavation observed in 1978 on the east side of the possible test building may have accommodated the installation of conduits or pipes that could have been connected to the L-shaped excavation observed in October 1981. 25X1

5. (S/D) East of the tower/stack, a possible engineering and test building (item 125, Figure 3 and Table 1) was in the late stages of construction by the end of the reporting period. The northern half of the building consists of a three-story administration/engineering section (item 125a), and the southern half of the building will possibly function as a test section (item 125b). A 2-meter-square and 16-meter-high section (item 125c) of the building is adjacent to the west side of the possible test section. Item 125c may be linked to an underground conduit that extends from the northern side of item 125, curves westward,

then extends southward along the western side of the building. Item 125c is aligned with items 126 and 127, but the underground conduit and its relative proximity to the main sections of item 125 probably link item 125c to the activities of item 125.

6. (S/D) Along the eastern side of item 125 are foundations and bases for seven spherical tanks (Figure 3). Four bases were constructed between late 1980 and early 1981. Hexagonal construction forms for three additional bases were constructed between May and October 1981 (Figure 4). Six gore sections and two possible polar caps for spherical tanks were on the ground adjacent to the row of four completed tank bases on [redacted] Each gore section is 2 meters wide at the midpoint, tapering to 1 meter at each end. The gore sections probably arrived at Ivankovskiy Transshipment Facility [redacted] Figure 5) between October 1979 and June 1980. No spherical tanks or pipe galleries were under construction during the reporting period. 25X1 25X1

7. (S/D) Two additional structures, items 117 and 118, are also part of the new developmental area. Item 117 consists of a two-story administration/engineering annex (item 117a) and two identical high-bay engineer/test sections (items 117b and c). Each engineer/test section has a single [redacted] meter-high access door. The function of item 118 has not been determined because the building is in the early stage of construction. On imagery of [redacted] the building appeared to contain a possible open central work section with shops or work bays along two sides. 25X1 25X1

8. (S/D) Several other construction projects were underway within the plant during the reporting period. Major modifications to the engine/propulsion test building (item 90, Figure 2 and Table 1), began in the summer of 1978. The blast apron and blast deflector were removed and a 6-meter-square by 23-meter-high exhaust silencer/diffuser (item 90d) and an exhaust duct (item 90c) 16 meters long and [redacted] meters in diameter were installed. The exhaust duct is enclosed in a structure with beveled sides. The beveled structure probably aids in heat transfer and noise reduction. In addition, the floorspace of the test building was increased by nearly 40 percent. A 13- by 6- by 6-meter air intake was constructed on the roof of the old portion of the test building. By [redacted] roof over the new portions of the test building was nearly complete (Figure 6). When the modifications are complete, the test building will accommodate a wide range of air-breathing engines. 25X1 25X1

9. (S/D) Several smaller buildings were either constructed or expanded during the reporting period. A fabrication/assembly building (item 102, Figure 2 and Table 1) underwent internal fitting out in 1981, and will probably be operational by mid-1982. An engineering/shop building (item 104) was constructed north of the new developmental area, near item 102. A graded area east of a shop building (item 110) represents preparations for a new building or storage area.

10. (S/D) The wide range in types of construction observed at the plant may be related to a number of future programs. The Bereznyak KB is probably involved in the design of an RSS. Some of the facilities constructed in the new developmental area may be for work on components of an RSS. Spherical tanks like those under construction at Ivankovskiy have been constructed at a few aircraft development facilities and at facilities involved in Soviet space-related development programs and propellant research and development. The large-diameter exhaust duct and the large exhaust silencer/diffuser at the modified engine/propulsion test building would be appropriate for engine or propulsion testing for either an RSS or an ASM.

Production

11. (S/D) Series production of both the AS-4 and AS-9 ASMs continue at Ivankovskiy. Between 1978 and 1981, the number of AS-4 shipping crates fluctuated (Table 2). Since a high count in 1980 of 55 on [redacted] the number of shipping crates has dropped significantly. The continued low counts of crates suggest a decline in AS-4 production at Ivankovskiy, although maintenance of a high production level would be needed to support the conversion of TU-95 (Bear B and C) bomber aircraft from AS-3 to AS-4 carrier aircraft. Some of the AS-4 production may have been transferred to another Bereznyak production facility or production at Ivankovskiy may have remained the same; the decrease in numbers of shipping containers would then indicate a change in shipping techniques (i.e., increased shipment at night). Changes in the total number of AS-9 shipping crates have also been observed. The number of AS-9A shipping crates has steadily decreased since May 1977, while the number of AS-9B shipping containers has steadily increased. 25X1 25X1

12. (S/D) Between December 1980 and March 1981, an AS-3 airframe (inset, Figure 7) was placed in the open storage yard in the northeast corner of the plant. By [redacted] the airframe had been removed. The reason for the presence of the AS-3 airframe at Ivankovskiy is not known. The airframe may have been at the plant for one of the following reasons: 25X1

- as an early prototype or mockup related to possible involvement of the Bereznyak KB in the AS-3 program;
- in relation to the conversion of BEAR B and C weaponry from the AS-3 to the AS-4;
- for unidentified testing;
- as part of a static display at the plant.

The AS-3 was probably designed by the Mikoyan KB in the late 1950s or early 1960s. Neither the Bereznyak KB nor the Ivankovskiy plant is known to have been involved with any aspect of AS-3 design, development, or production.

(Continued p. 9)

25X1

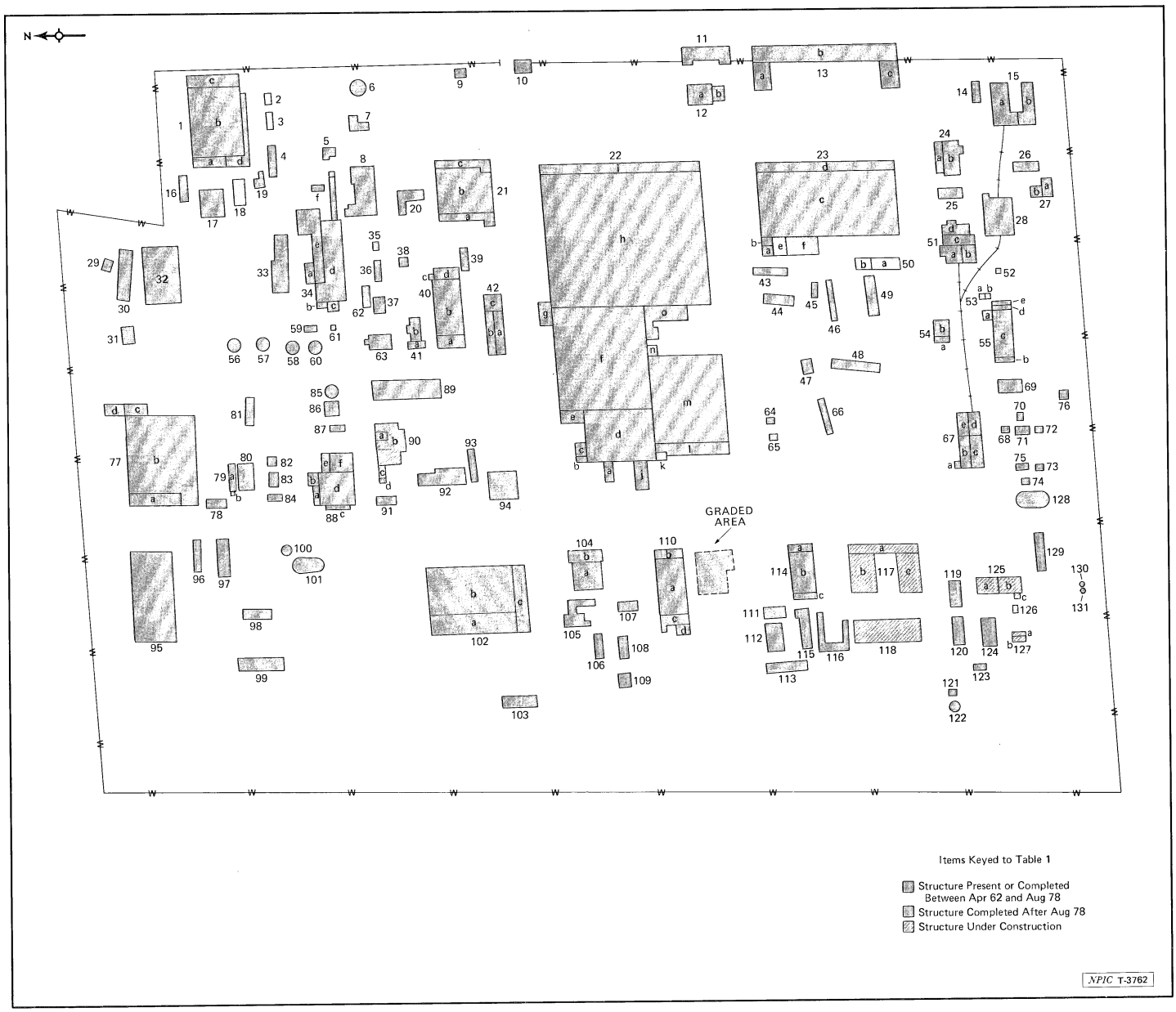

FIGURE 2. LAYOUT OF IVANKOVSKIY GUIDED MISSILE PLANT

25X1

Table 1.
Buildings and Structures at Ivankovskiy Guided Missile Plant, USSR, as of [redacted] 25X1
(Items keyed to Figures 2 and 3)

This table in its entirety is classified (SECRET/WNINTEL)

Item	Function	Dimensions (m) L	W	H	Floorspace (sq m)	Externally Complete	Remarks
1	Shop				5,378	Sep 70	
a	Sec	38	8	8	304		
b	Sec	76	53	10	4,028		
c	Sec	53	14	14	742		
d	Sec	76	4	5	304		
2	Storage bldg	14	7	3	98	Jun 80	
3	Storage bldg	20	7	3	140	Jun 80	
4	Storage bldg	36	5	3	180	Aug 71	
5	Support bldg	13	5	4	65	Aug 8	
6	Storage tank	19 (diam)		4		Jun 42	
7	Support bldg	22	19	5	418	Apr 82	
8	Support bldg	52	25	5	1,300	Aug 71	
9	Support bldg	8	8	3	64	Apr 82	
10	Security bldg	19	11	4	209	Apr 82	
11	Security bldg	49	17	10	833	Sep 83	
12	Admin bldg				816	Feb 75	
a	Sec	29	24	5	696		
b	Sec	12	10	3	120		
13	Admin/engr bldg				13,638	Jul 68	
a	Sec	30	18	13	1,620		3 stories
b	Sec	151	19	19	11,476		4 stories
c	Sec	30	18	13	540		
14	Storage bldg	25	8	7	200	May 77	
15	Carpentry shop bldg				2,244		
a	Sec	48	18	4	864	Aug 71	
b	Sec	48	30	4	1,380	Jun 42	
16	Storage bldg	29	8	3	232	May 66	
17	Shop	30	23	8	690	May 66	
18	Support bldg	31	12	5	372	Oct 78	
19	Support bldg	16	10	3	160	Aug 71	
20	Poss lab/workshop	29	26	5	754	Apr 82	
21	Forge/foundry bldg				3,944		
a	Sec	58	3	8	174	Apr 82	
b	Sec	58	52	10	3,016	Jul 70	
c	Sec	58	13	13	754	Jan 72	
22	Fab/assem bldg				55,958		
a	Sec	15	12	5	180	Apr 82	
b	Sec	9	6	13	54	Apr 82	
c	Sec	16	9	5	144	Apr 82	
d	Sec	72	54	22	3,888	Apr 82	
e	Sec	19	11	3	209	Apr 82	
f	Sec	114	97	16	11,058	Apr 82	
g	Sec	28	13	12	338	Jul 72	
h	Sec	164	144	9	23,616	Apr 82	
i	Sec	167	11	14	7,348	Apr 82	4 stories
j	Sec	24	15	8	360	Sep 76	
k	Sec	9	7	12	63	Jul 74	
l	Sec	69	12	15	828	Sep 72	
m	Sec	92	69	16	6,348	Sep 72	
n	Sec	18	10	4	180	Jul 74	
o	Sec	42	32	6	1,344	Apr 82	
23	Fab/assem bldg				12,362		
a	Sec	9	6	4	54	Aug 75	
b	Sec	10	6	9	60	Apr 82	
c	Sec	143	70	11	10,010	Apr 82	
d	Sec	143	10	12	1,430	Apr 82	
e	Sec	19	12	8	228		Ucon
f	Sec	29	20		580		Ucon
24	Shop				1,056	Jun 42	
a	Sec	34	6	12	408		2 stories
b	Sec	36	18	15	648		
25	Storage bldg	35	11	3	385	Apr 82	
26	Storage bldg	32	10	5	320	Apr 82	
27	Support bldg				244		
a	Shop	19	10	7	190	Sep 76	
b	Sec	9	6	3	54	Sep 63	
28	Carpentry shop	48	28	6	1,344	Apr 82	
29	Shop	14	10	3	140	Aug 71	
30	Shop	48	14	5	672	Aug 71	
31	Storage bldg	19	12	4	228	Sep 76	
32	Shop	80	31	5	1,860	Feb 75	
33	Shop	64	16	5	1,024	Jun 64	
34	Steamplant				5,063		
a	Sec	21	12	8	252	Feb 66	
b	Sec	11	5	5	55	Feb 66	
c	Sec	10	7	4	70	Feb 66	
d	Sec	83	32	20	2,656	Apr 82	
e	Sec	79	25	14	1,975	Dec 64	
f	Sec	11	5	3	55	Aug 78	
35	Support bldg	10	7	3	70	Apr 79	
36	Support bldg	18	7	3	126	Aug 71	
37	Support bldg	19	12	5	228	Sep 76	
38	Support bldg	6	5	4	30	Feb 66	
39	Support bldg	24	10	3	240	Jun 64	
40	Shop				2,593	Apr 82	
a	Sec	29	12	7	348		
b	Sec	80	29	15	1,740		
c	Sec	12	12	3	144		
d	Sec	19	19	7	361		
41	Poss lab/workshop				440	Apr 82	
a	Sec	19	8	5	152		
b	sc	24	12	12	288		
42	Shop				1,476	Apr 82	
a	Sec	41	10	6	410		
b	Sec	41	9	9	369		
c	Sec	41	17	6	697		
43	Storage bldg	34	8	3	272	Aug 82	
44	Storage bldg	23	11	3	253	Aug 71	
45	Storage bldg	14	4	3	56	Jun 67	
46	Storage bldg	52	5	3	260	Sep 63	
47	Storage bldg	14	10	3	140	Aug 82	
48	Storage bldg	53	12	3	636	Apr 82	
49	Storage bldg	66	13	3	858	Jun 64	
50	Storage bldg				705		
a	Sec	30	15	4	450	Aug 79	
b	Sec	17	15	7	255	Jun 80	
51	Carpentry shop				1,386		
a	Sec	23	18	5	414	Feb 64	
b	Sec	18	16	4	288	Feb 64	
c	Sec	32	12	4	384	Feb 64	
d	Sec	25	12	6	300	Sep 70	
52	Support bldg	7	4	4	28	Sep 76	
53	Support bldg				70	Jun 80	
a	Sec	7	3	6	21		
b	Sec	7	7	10	49		
54	Admin/engr bldg				350	Aug 75	
a	Sec	14	7	5	98		
b	Sec	18	14	7	252		
55	Carpentry shop				1,474		
a	Sec	16	9	3	144	Jun 74	
b	Sec	19	6	7	114	May 69	
c	Sec	50	19	3	950	Oct 64	
d	Sec	19	7	8	133	Oct 64	
e	Sec	19	7	3	133	Oct 64	
56	Storage tank	15 (diam)		14		Sep 76	
57	Storage tank	16 (diam)		14		Sep 76	
58	Storage tank	13 (diam)		9		May 73	
59	Pump/valvehouse	13	6	5	78	Jul 74	
60	Storage tank	13 (diam)		94		May 73	
61	Pump/valvehouse	5	5	10	25	Jul 74	
62	Support bldg	32	12	4	384	May 81	
63	Lab/workshop	26	16	7	416	Aug 71	
64	Poss test bldg	5	5	8	25	Nov 70	
65	Poss test bldg	5	5	8	25	Nov 70	
66	Storage bldg	41	11	3	451	May 77	
67	Carpentry shop				1,408		
a	Sec	10	4	4	40	Jul 72	
b	Sec	34	12	4	408	Apr 82	
c	Sec	34	12	4	408	Apr 82	
d	Sec	22	13	5	286	May 77	
e	Sec	22	12	5	264	May 77	
68	Poss test bldg	7	7	8	49	Aug 71	
69	Storage bldg	25	14	3	350	Sep 76	
70	Poss test bldg	7	6	8	42	Aug 71	
71	Poss test bldg	14	9	8	126	Aug 71	
72	Poss test bldg	7	7	8	49	Aug 71	
73	Poss test bldg	7	6	8	42	Aug 71	
74	Poss test bldg	7	7	8	49	Aug 71	
75	Poss test bldg	14	9	8	126	Aug 71	
76	Pump/valvehouse	10	10	7	100	Aug 78	
77	Assem bldg				7,995		
a	Admin/engr sec	56	12	12	672	Jan 72	
b	Assem sec	94	72	10	6,768	Jan 72	
c	Support sec	24	15	10	360	Apr 78	
d	Storage sec	15	13	4	195	Apr 79	
78	Support bldg	30	12	5	360	Aug 75	
79	Support bldg				620		
a	Sec	41	12	5	492	Feb 75	
b	Sec	8	8	3	64	Oct 78	
80	Support bldg	32	14	5	448	Apr 79	
81	Support bldg	31	7	3	217	Aug 71	
82	Storage bldg	7	6	7	42	Aug 71	
83	Support bldg	14	5	3	70	Sep 76	
84	Support bldg	14	6	3	84	Aug 71	
85	Storage tank	12 (diam)		8		Apr 82	
86	Lab/workshop	19	14	5	266	Apr 82	
87	Support bldg	14	5	3	70	Aug 71	
88	Shop				2,462		
a	Sec	23	12	6	276	Jun 66	
b	Sec	14	12	11	168	Jun 66	
c	Sec	24	3	8	72	Jun 66	
d	Sec	38	37	13	1,406	Apr 82	
e	Sec	18	10	8	180	Dec 64	
f	Sec	20	18	10	360	Dec 64	
89	Admin/engr bldg	76	17	12	1,292	Sep 83	
90	Engine/propulsion test bldg				1,264		
a	Test sec	14	8	6	112	Oct 81	
b	Test sec	48	24	13	1,152		Part ucon
c	Exhaust duct	18	5.1 (diam)				Ucon
d	Exhaust silencer/diffuser	6	6	23		Oct 81	
91	Support bldg	19	10	5	190	Aug 71	
92	Storage bldg	52	18	4	936	Apr 82	
93	Storage bldg	36	4	3	144	Jun 64	
94	Support bldg	31	30	8	930	Oct 81	
95	Shop	97	42	5	4,074	Aug 75	
96	Storage bldg	30	10	4	300	Mar 72	
97	Storage bldg	40	13	4	520	Oct 64	
98	Support bldg	30	12	5	360	Aug 75	
99	Storage bldg	48	12	7	576	Mar 81	
100	Storage bldg	6 (diam)		4		Aug 78	
101	Storage bldg	33	14	7	462	May 79	
102	Fab/assem bldg				8,208	Jun 80	
a	Sec	96	24	11	2,304		
b	Sec	96	52	11	4,992		
c	Sec	76	12	11	912		
103	Admin/engr bldg	37	13	14	481	Aug 77	
104	Engr/shop bldg				1,524	Jul 80	
a	Sec	32	31	9	992		
b	Sec	38	14	8	532		
105	Storage bldg		Irregular		343	Apr 82	
106	Storage bldg	30	9	4	270	Aug 78	
107	Storage bldg	20	10	5	200	Apr 82	
108	Storage bldg	26	9	3	234	Jun 75	
109	Shop	17	12	3	204	Aug 71	
110	Shop				2,648		
a	Sec	61	31	7	1,891	Jul 74	
b	Sec	31	10	9	310	Sep 76	
c	Sec	31	9	7	279	oct 78	
d	Sec	14	12	7	168	Jun 80	
111	Support bldg	25	14	19	350	Oct 81	
112	Storage bldg	30	14	7	420	Sep 79	
113	Storage bldg	23	10	3	230	Aug 78	
114	Test/checkout bldg				1,736		
a	Sec	45	28	30	1,260	Apr 73	
b	Sec	28	14	17	392	Apr 73	
c	Sec	14	6	4	84	May 77	
115	Shop	41	14	4	574	Aug 75	
116	Storage bldg		Irregular		836	Aug 71	
117	Engr/test bldg				3,912		Ucon
a	Admin/engr sec	72	12	8	1,728		2 stories
b	Engr/test sec	42	26	23	1,092		
c	Engr/test sec	42	26	23	1,092		
118	Unid bldg	66	20		1,320		Ucon
119	Support bldg	30	13	3	390	Jun 80	
120	Support bldg	30	13	3	390	Jul 78	
121	Support bldg	10	7	4	70	Jun 64	
122	Storage tank	11 (diam)		5		Apr 68	
123	Support bldg	9	6	4	54	Jun 64	
124	Support bldg	30	13	3	390	Jul 78	
125	Poss engr/test bldg				1,782		Ucon
a	Admin/engr sec	25	18	12	1,350		3 stories
b	Poss test sec	24	18	12	432		
c	Square tower/stack	2	2	16			
126	Rectangular tower/stack	7	4	23			Ucon
127	Poss test bldg				126		Ucon
a	Sec	18	4	11	72		
b	Sec	18	3	16	54		
128	Support bldg	33	14	7	462	Aug 79	
129	Powerplant	35	7	3	245	Apr 62	
130	Storage tank	3 (diam)		5		Apr 68	
131	Storage tank	3 (diam)		5		Apr 68	
	Total floorspace				178,904		

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13. (S/D) Shipping crates associated with the RD-3M engine were observed at Ivankovskiy during the reporting period. The crates were east of a support building (item 120, Figure 2 and Table 1) in October 1978 and have been west of item 127 since June 1980. The presence of the crates in the new developmental area during its construction suggests that they may be for construction equipment or materials. Also, no propulsion test facilities have been available for engine testing during the reporting period. Modification of the engine/propulsion test facility began in 1978, but the facility is not yet operational. Neither the Bereznyak KB nor the Ivankovskiy plant have previously been associated with engine development. Historically, propulsion design authorities have developed engines and motors for missiles designed and produced by the Bereznyak KB. If the RD-3M crates were for engines under development, it is not likely that they would have remained in open storage, without any form of environmental protection, in the midst of a major construction program.

14. (TSZ) A 10-meter-long probable shipping container (Figure 7) was in the open storage yard on [redacted] Shipping containers of that size have not been associated with any of the missiles currently under development or in production at Ivankovskiy or other Bereznyak facilities. The 10-meter container could be for one of two new missile airframes: a strategic ALCM or the SS-NX-22 naval cruise missile, which is being tested at Chernomorskoye Missile and Test Evaluation Facility [redacted] During the flight test program conducted at Chernomorskoye, a [redacted] shipping container was observed with the missile airframe. The appearance of the 10-meter container in the open storage yard at Ivankovskiy coincided with the presence of two SS-NX-22 airframes at Chernomorskoye during late May and June 1981.[3] 25X1 25X1 25X1

15. (TSRZU) Major components of a new ALCM (probably designed by the Bereznyak KB) have been under development for several years at the Vladimirovka Advanced Weapons and Research Complex (VAWARC). Initial flight testing of the new ALCM probably took place from November through December 1981. The 10-meter container at Ivankovskiy in May 1981 may have been for an early flight-test

Table 2.
ASM Shipping Containers Observed at Ivankovskiy Guided Missile Plant and Transhipment Facility

[redacted] 25X1

This table in its entirety is classified SECRET/WNINTEL

Date	Main Plant		Transshipment Facility	
	AS-4	AS-9	AS-4	AS-9
[redacted] 25X1	38	22	2	—
	—	—	2	—
	34	25	10	—
	—	—	6	—
	50	61	—	—
	67	65	—	—
	71	60	—	—
	25	—	—	—
	58	36	—	—
	46	40	—	—
	39	—	5	—
	40	45	7	—
	—	—	—	—
	—	—	—	—
	—	—	—	—
	—	—	—	—
	28	23	2	—
	31	21	—	—
	—	—	—	—
	28	12	—	—
	19	12	10	—
	20	8	7	6
	44	11	9	9
	55	10	—	—
	—	—	—	—
	—	—	3	—
	6	2	4	—
	12	5	4	—
	6	2	10	—
	12	9	2	—
	7	16	2	—
	—	—	2	—
	10	21	2	—
	—	—	—	—
	9	14	—	—

Table 3.
Unidentified Shipping Containers Observed at Ivankovskiy Guided Missile Plant

[redacted] 25X1

This table in its entirety is classified SECRET/WNINTEL

Description	Dimensions (m) L	W	H	Possible TASM Association
Crate				—
Canister				—
Crate				AS-7/AS-10/AS-X-12
Crate				AS-7/AS-10/AS-X-12
Crate				AS-14
Canister				AS-X-11
Crate				—

25X1

version of the missile prior to its shipment to the VAWARC. Also, a new strategic bomber, the RAM-P, has been observed at Ramenskoye Flight Test Center [redacted], in the section of the flight test center associated with the Tupolev KB. The Bereznyak KB has been associated with the Tupolev, Zubets, and Yaskin KBs in the development of a Bereznyak-designed cruise missile.[4] The shipping container at Ivankovskiy and the observation of a new large strategic bomber at Ramenskoye suggest that a new strategic ALCM could be near the flight-test phase of development. 25X1

16. (S/D) Shipping containers (crates and canisters) dimensionally compatible with the airframes of the AS-7, AS-10, AS-X-11, AS-X-12, and AS-14 have been observed at Ivankovskiy (Table 3). The AS-7/-10/-X/-12 family of TASMs ranges from [redacted] in length and [redacted] in diameter. A shipping canister has been associated with the [redacted] AS-X-11 airframe at operational TASM-equipped airfields. The AS-14 airframe is probably about [redacted] in diameter. 25X1 25X1 25X1

REFERENCES

IMAGERY

(S/D) All relevant satellite imagery acquired from [redacted] the information cutoff date, was used in the preparation of this report. 25X1

MAPS OR CHARTS

ACIC. US Air Target Chart, Series 200, Sheet 0154-22, scale 1:200,000 (UNCLASSIFIED)

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2. DIA. DST-1830s-289-78-SAO, [redacted] *Missile Industry Design and Development Resources - USSR (U)*, May 78 (TOP SECRET [redacted] 25X1 25X1
3. NPIC. [redacted], RCA-17/0002/81, *Developments at Chernomorskoye and Feodosiya Missile Test and Support Facilities (S)*, Dec 81, (TOP SECRET [redacted] 25X1 25X1
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*Extracted information is classified TOP SECRET [redacted] 25X1
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RELATED DOCUMENT

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REQUIREMENTS

COMIREX JO9
Project 542033J

(S) Comments and queries regarding this report are welcome. They may be directed to [redacted] Soviet Strategic Forces Division, Imagery Exploitation Group, NPIC, [redacted] 25X1 25X1